

MULTIPLE RADAR COMBINING FOR INCREASED RANGE, RADAR SENSITIVITY AND ANGLE ACCURACY Eli Brookner et al. Application No. 10/684,081

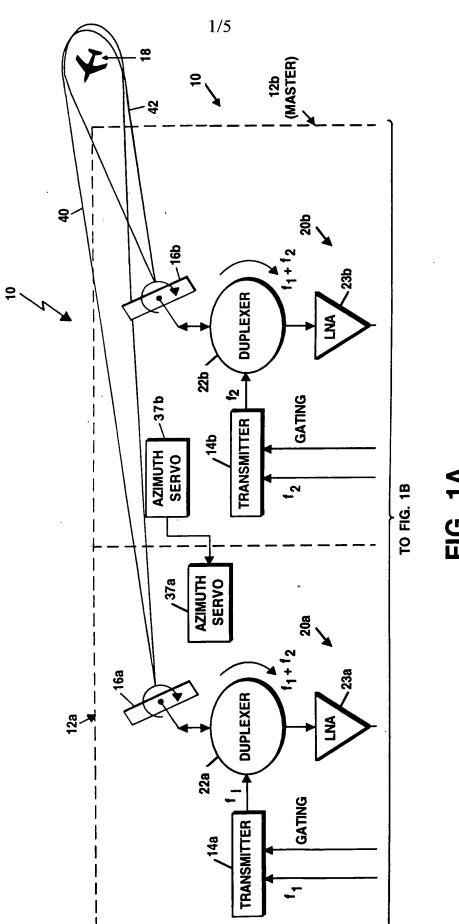
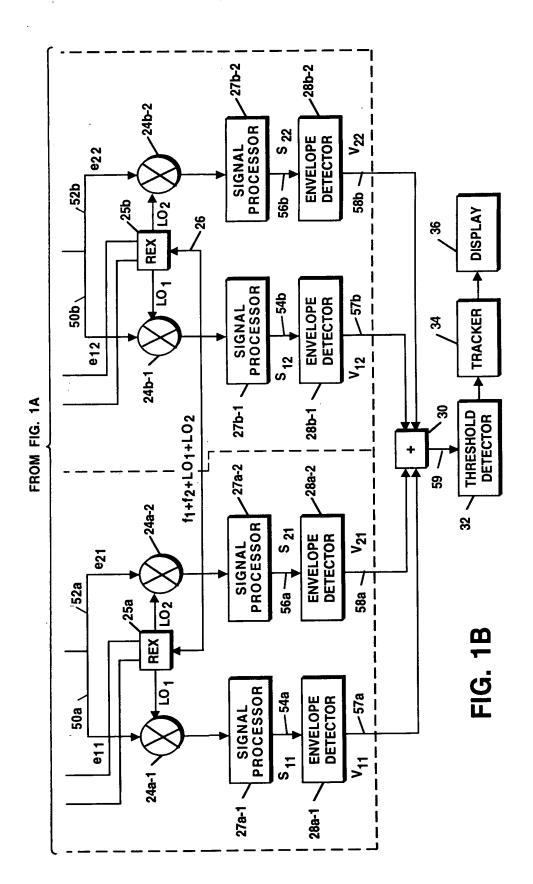
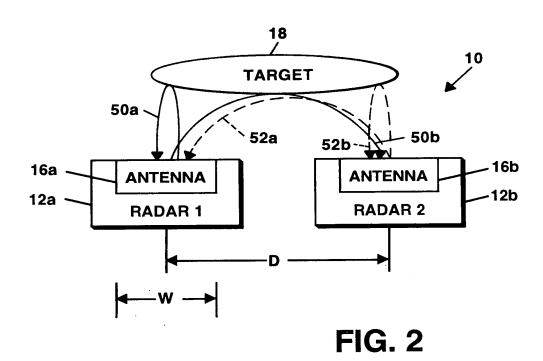
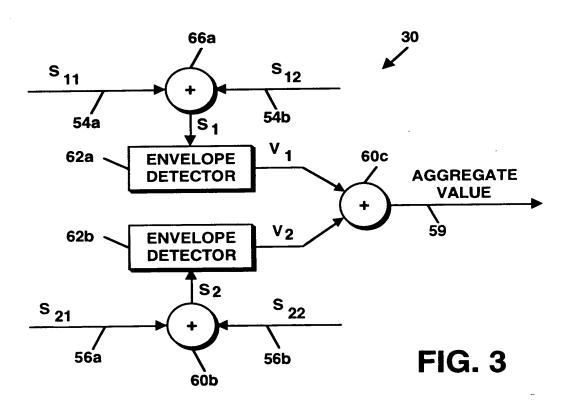
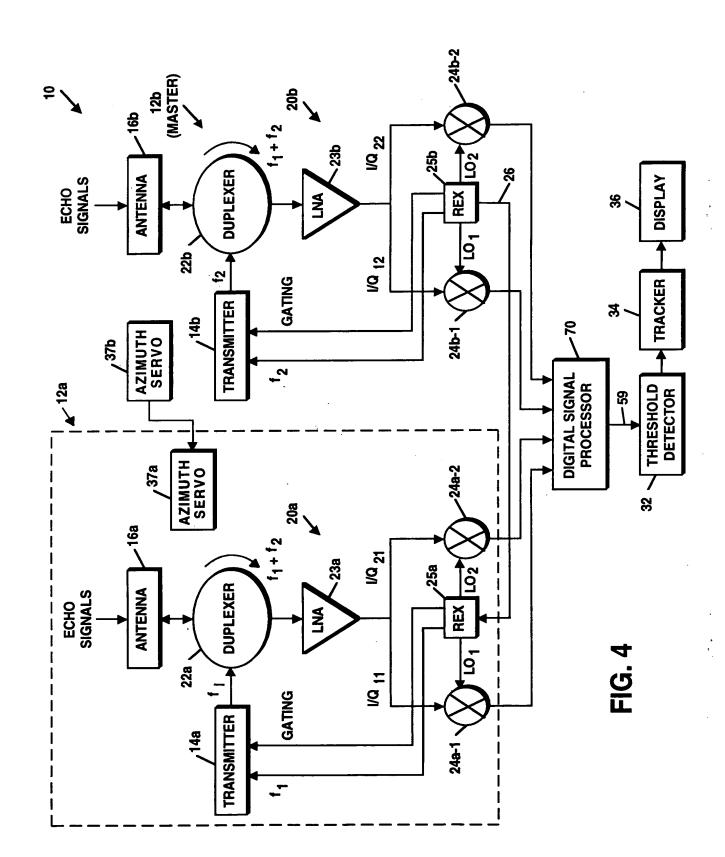


FIG. 1A









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Mode	Carrier	Coherent or	Receiver	How	Type of Target	SNR
	Frequencies	Incoherent	Processing of	Waveforms		Sensitivity
	for Radar 1 (f ₁)	on Transmit	S11, S12 and	Transmitted		Improvement
	and Radar 2 (f_2)		S ₂₁ , S ₂₂			(dB)
Search/	G≠1J	Incoherent	Incoherent	Simultaneously	Non-fluctuating	9~
Track			(as shown in			
			FIG. 1)			
Search/	f ₁ ≠ f ₂	Incoherent	Coherent +	Simultaneously	Non-fluctuating	9~
Track			Incoherent			
			(as shown in			
		: :	FIG. 3)			
Track	f ₁ =f ₂	Coherent	Coherent	Simultaneously	Non-fluctuating	6∼
Track	$f_1 = f_2$	Coherent	Coherent +	Simultaneously	Non-fluctuating	6~
			Incoherent			
Search/	$f_1 = f_2$	Incoherent	Incoherent	Sequentially	Non-fluctuating	9~
Track						
Search/	$f_1 = f_2$	Incoherent	Coherent +	Sequentially	Non-fluctuating	9~
Track			Incoherent			
Search/	f ₁ ≠ f ₂	Incoherent	Incoherent	Simultaneously	Swerling-II	8.7
Track						

FIG. 5